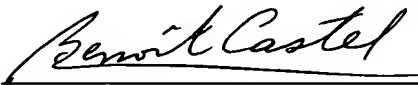


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| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371   |   | Attorney Docket No.<br><b>1510-1099</b><br>U.S. Application No.<br><b>10/518083</b> |
| INTERNATIONAL APPLN. NO.<br><b>PCT/SE03/00955</b>  | INTERNATIONAL FILING DATE<br><b>June 11, 2003</b> | PRIORITY DATE CLAIMED<br><b>June 20, 2002</b>                                       |
| TITLE OF INVENTION: <b>A SYSTEM FOR A CHEMICALLY BONDED CERAMIC MATERIAL, A POWDERED MATERIAL AND A HYDRATION LIQUID THEREFORE, THE CERAMIC MATERIAL, A METHOD FOR ITS PRODUCTION AND A DEVICE</b>   |   |   |
| APPLICANT(S) FOR DO/EO/US: <b>Leif HERMANSSON, Nils-Otto AHNFELT, Jesper LOOF and Hakan ENGVIST</b>  |   |   |
| Applicant herewith submits to the United States Designated Elected Office (DO/EO/US) the following items and other information:  |   |   |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)).<br/>The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau. See attached PCT/IB/308.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made, however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)</li> <li>10. <input type="checkbox"/> A Declaration of Inventorship for purposes of U.S.A. designation pursuant to rule 4.17(iv). ))</li> <li>11. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>12. <input type="checkbox"/> Information Disclosure Statement (IDS) w/PTO-1449 - <input type="checkbox"/> Copy of IDS citations.</li> <li>13. <input type="checkbox"/> Assignment Papers (cover sheet &amp; document(s)).</li> <li>14. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>15. <input checked="" type="checkbox"/> An Application Data Sheet under 37 C.F.R. 1.76.</li> <li>16. <input checked="" type="checkbox"/> Itemized Return Receipt Postcard</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> Power of Attorney and Statement under 37 CFR §3.73(b) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> Newly executed Power of Attorney</li> <li>b. <input type="checkbox"/> A change of Power of Attorney and/or change of address letter.</li> </ol> </li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the international application (35 U.S.C. 154(d)(4)).</li> <li>22. <input checked="" type="checkbox"/> Other items or information: <b><u>International Preliminary Examination Report (PCT/IPEA/409), International Search Report (PCT/ISA/210), Abstract of the Disclosure</u></b></li> </ol> |   |   |

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| U.S. APPLICATION NO.<br><b>107518083</b>  |                 | INTERNATIONAL APPLN. NO.<br>PCT/SE03/00955                                |  | ATTORNEY DOCKET NO.<br>1510-1099         |                                      |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.<br><input checked="" type="checkbox"/> The following fees are submitted:<br><br><b>PCT FEES - NATIONAL STAGE</b>  |                 |   |  |  | <b>CALCULATIONS<br/>PTO USE ONLY</b> |
|   |                 |   |  |  |                                      |
| <b>Large Entity</b>   |                 | <b>Small Entity</b>   |  | <b>Fee Description</b>                   |                                      |
| <b>Fee Code</b>   | <b>Fee (\$)</b> | <b>Fee Code</b>   | <b>Fee (\$)</b>  |  |                                      |
| 1631  | 300.00          | 2631  | 150.00   | Basic National Stage Fee                 |                                      |
| 1632  | 500.00          | 2632  | 250.00   | National Stage Search Fee                |                                      |
| 1633  | 200.00          | 2633  | 100.00   | National Stage Examination Fee           |                                      |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20- <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (Fee Code 1617/2617)   |                 |   |  | \$130.00                                 |                                      |
| <b>SIZE FEE</b><br>Plant size fee each additional 50 sheets in excess of 100<br><br>Fee Code 1681/2681  |                 | <b>Additional Sheets</b><br>- 100 = <u>50</u> = <u>    </u> X <u>    </u> |  | <b>Fee From Below</b><br><u>\$250.00</u> | \$0.00                               |
| <b>CLAIMS</b>   |                 | <b>NUMBER FILED</b>   | <b>NUMBER EXTRA</b>  | <b>RATE</b>                              |                                      |
| Independent Claims Fee Codes 1614 / 2614  |                 | 2 - 3 =   | 0  | x \$200.00                               | \$0.00                               |
| Total Claims Fee Codes 1615 / 2615  |                 | 34 - 20 =   | 14   | x \$50.00                                | \$700.00                             |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) Fee Code 1616 / 2616  |                 |   |  | + \$360.00                               | \$0.00                               |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). Fee Code 1618  |                 |   |  |  | \$0.00                               |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). (Fee code 8021)<br>\$40.00 per property   |                 |   |  | +  | \$0.00                               |
| <b>TOTAL FEES ENCLOSED</b>  |                 |   |  | <b>=</b>                                 | <b>\$1,830.00</b>                    |
|   |                 |   |  | Amount to be refunded:                   | \$                                   |
|   |                 |   |  | Charged:                                 | \$                                   |
| <input checked="" type="checkbox"/> A check in the amount of <b>\$1,830.00</b> to cover the above fees is attached.<br><br><input type="checkbox"/> The Director is hereby authorized to charge indicated fees and credit any overpayment to Deposit Account No. 25-0120 in the name of Young & Thompson. A duplicate copy of this sheet is enclosed.<br><br><input checked="" type="checkbox"/> The Director is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17. |                 |   |  |  |                                      |
| SEND ALL CORRESPONDENCE TO:<br>YOUNG & THOMPSON<br>745 South 23 <sup>rd</sup> Street<br>Arlington, VA 22202<br>Telephone: (703) 521-2297<br>Facsimile: (703) 685-0573   |                 |   | <div style="text-align: center;"> <br/>         SIGNATURE       </div> <div style="text-align: center;">         Benoit Castel, Reg. No. 35,041<br/>         NAME, REGISTRATION NUMBER       </div> <div style="text-align: center;">         December 16, 2004<br/>         DATE       </div> |  |                                      |
| Y&T Customer No. <b>00466</b><br>BC/ia  |                 |   |  |  |                                      |